

Cracklin' Static

NOVEMBER 2019 Edition



Breakfast Meeting: Sat, November 2nd

Boomtown Casino Hotel
Events Center
I-80 at Exit 4 in Verdi

Breakfast Buffet – 7:30am - \$12
General Meeting – 8:00am

This meeting will be open discussion

SNARS NET on DMR – Tuesday 8pm
DMR Talk Group: 31328 SNARS

SNARS Treasury –as of 10-26-19

Operating	\$6,685
Savings	\$9,106
Self Insurance	\$6,478
Convention	\$4,295
PayPal	\$920
Total	\$27,483
Net Income	\$160

SNARS Membership – ending 10-26-19

General	107	29%
Extra	134	36%
Technician	111	30%
Advanced	14	4%
No License	3	1%

SNARS Members total 370

ARRL Members 241 65%

President's Voice

President John Byerly, N7ROJ

Email: mtnlion@gmail.com



Greetings Members!

This has been a busy month, with NVQSO, Pacificon, and JOTA.

I want to thank everyone who has participated in these events, and to everyone for representing SNARS at Pacificon. They did a great job!

We have our list of candidates that have been nominated and have accepted, so now we move to voting.

Thank you all for ensuring your e-mail addresses are correct! That will streamline the process greatly. We will send out a Mini Static when the voting opens so you can look for your link to vote.

If you can't or don't chose to vote electronically, you will be mailed out a ballot as has been done in the past, but I strongly recommend switching to E-Voting, it is secure and saves the club time and money!

See you at the meeting!

73, John N7ROJ



PO BOX 7727 Reno NV 89510
 Yearly Dues: \$40.00 Individual • \$50.00 Family
 775.453.4142 <http://snars.org>

2019 Officers

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 Vice-President.....Jim Shepherd, W6US
 Treasurer.....Bill Jones, AE7OX
 Secretary.....Anthony Marcin, W7XM
 DirectorWes Vick, KG7QXE
 DirectorJohn Miller N7JDM
 DirectorBarry Bettman, K6ST

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Cracklin Static..... Howie Holden, WB2AWQ
 W7TA Trustee Peter DeBay, KE7VSR
 KR7ENO Trustee Howie Holden, WB2AWQ
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Cracklin Static Publication

Editor: Howie Holden **WB2AWQ** - holden7471@msn.com
 Cracklin' Static is the Newsletter of, and sponsored by the Sierra Nevada Amateur Radio Society. Opinions expressed herein are those of the editors and contributors and should not be considered as official expressions of the Club Officers, Staff or Club Members, or as endorsements by same.

Material for publication may be edited to enhance readability or to save space. We reserve the right to use whatever font size, line spacing or other tools as may be required to publish this Newsletter. **Deadline for input to the newsletter is 1500 hours on the Sunday** prior to the 1st Saturday of each month.

SNARS Wide Area Linked System

147.030 + PL 123.0	Sparks, Fernley, Fallon	Online
147.210 + PL 100.0	Reno, Sparks	Online
147.150 + PL 123.0	Lake Tahoe, Truckee, Carson	Online
146.925 - PL 123.0	Lovelock, Fallon	Online
146.670 - PL 123.0	Winnemucca	Online
444.875 + PL 100.0	Yerington	Online
444.125 + PL 123.0	Reno Sparks	Offline

DMR Systems

444.925 + CC 1	Reno, Sparks	Online
444.825 + CC 1	Dayton, Fallon, Carson	Online
443.925 + CC 1	Lake Tahoe, Truckee, Carson	Online
443.950 + CC 1	Incline Village	Online
442.875 + CC 1	Sparks, Fernley, Fallon	Online
442.850 + CC 1	Downtown Reno	Online
441.950 + CC 1	Fallon, Fernley	Offline

Fusion Systems

146.610 - PL 123.0	Reno, Carson, Dayton	Online
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IRLP / EchoLink Systems

147.300 + PL 123.0	Reno, Sparks	Online
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Packet / APRS

145.050 - RNO	Reno, Carson, Dayton	Online
145.050 - ROSE	Lake Tahoe, Truckee, Carson	Online
144.390 - TOULON	Lovelock, Fallon	Online

Standalone Systems

147.390 + PL 100.0	Reno, Carson, Dayton	Online
443.075 + PL 123.0	Reno, Carson, Dayton	Online
927.0875 + PL 114.8	Reno, Carson, Dayton	Online

Online
 Offline
 Not Linked

Thank you to our Sponsors/Supporters



Weekday on the SNARS Linked System

147.030 + PL 123 – Sparks/Fernley
 147.150 + PL123.0 – Lake Tahoe / Truckee
 147.210 + PL 100.0 - Reno
 444.875 + PL 100.0 - Yerington
 146.925 - 123.0 – Lovelock / Fallon
 146.67 – PL 123.0 - Winnemucca

Monday through Friday @ 12:00pm

Open to all amateur radio operators. A general informational net for the amateur radio community of Northern Nevada and Eastern California. Radio Checks and Questions are welcomed.

Nets on the SNARS Linked Systems

147.210 + 100.0 | 147.030 + 123.0 | 147.150 + 123.0
 147.670 – 123.0 | 146.925 – 123.0 | 444.875 + 100.0

ERC Net for NV and Northern CA	Monday @ 9:15pm
N. Western NV ARES Net	Thursday at 7:30pm
Northern Nevada Preppers Net	Wednesday @ 8:00PM
Hospital Net	Friday @ 10:00AM

Nets on IRLP (GSR) System

Repeater: 147.300 + 123.0

Amateur Radio Newline	Monday - 8:00PM
Nevada Skywarn Net	Wednesday - 7:00pm
Nevada State ARES Net	Thursday - 7:00PM

Nets on Simplex/HF

Jefferson Noon Net	7.204 LSB	Daily - 12:00pm
6 Meter Net	50.350 USB	Tuesday – 8:00pm
2 Meter Week Signal	144.250 USB	Wednesday - 8:00PM
2 Meter Simplex Net	146.500 FM	Thursday – 8:00PM
10 Meter Net	28.350 USB	Sunday – 2:00PM

SNARS Weekly DMR Net – Tuesdays
8:00PM

SNARS Talk Group 31328

Open to Members and Guests. A general information net each week on DMR.

SNARS CALENDAR

Ham Radio Night at the REOC Wednesday, November 6,
6 PM Washoe REOC 5195 Spectrum Blvd, Reno NV

QCWA Nevada Chapter Sat, November 9, 11am – 12pm
Famous Dave's Bar-B-Que, 4925 Kietzke Ln, Reno

SNARS Board Meeting Wednesday November 13, 6 PM
Chin-Chin 222 Los Altos Pkwy, Sparks NV

One Day Ham Review Saturday, Nov 16, 2019
Washoe REOC 5195 Spectrum Blvd, Reno NV

Visit <http://snars.org/classes> for more information on the One Day Ham Review / Ham Cram. Registration is MANDATORY

Next SNARS Breakfast Meeting – Saturday December 7,
8 AM Boomtown Casino Hotel Events Center I-80 at Exit 4 Verdi

WELCOME NEW MEMBERS

October, 2019

Jeremy	Daughhetee	KJ7HDX
Hunter	Garrett	KJ7IRS
McKenzie	Garrett	KJ7IRT
Scott	Herring	KK7AIR
Stephen	Waters	KE7YBD

THE NAME OF THE GAME

Jim Shepherd, W6US nvjims@gmail.com

NEED TO KNOW...

You have passed all the tests with flying colors, read Part 97 in its entirety, and done some listening across the bands. You are getting comfortable talking on your radio, and may have been doing these things over a period of years. There is still a lot more to learn about ham radio.

One of the first things that is needed is to be able to describe your “radio location” to others. Yes, you are used to saying “Reno, Nevada”, but there is a lot more information that may be needed by the other station. A lot of awards, certificates, contest entries, and information to calculate distances between stations are wanted by other stations. On VHF and up frequencies, the number one locator is the Grid Zone. If you are in the Reno/Sparks area, you are in the grid zone DM09. This is a 1 by 2 degree area enclosing the earth’s surface bound by the 39 and 40 degree north latitude lines and the 118 and 120 west longitude lines. If more detail is needed there is the 6 digit form, DM09DN which contains my house and a number of other hams in the area of Sparks north of Prater Way, east of Pyramid, and a little bit south of Los Altos Parkway. There is a great map that you can zoom in and see even smaller grids like the DM09DN14xx where the last 2 digits would change when I backed my mobile rig out of the driveway... You can use the map at <https://dxcluster.ha8tks.hu/hamgeocoding/> Normally, the 4 or 6 digit grids are the one you need to know.

Although it is a good thing to join the ARRL, but even those who don’t, have a need to know their Section. The entire state of Nevada is the Nevada Section in the Pacific Division and that makes it easy. Our members in Truckee will find it a little more complicated as the state of California is divided into 2 Divisions, the Southwest and the Pacific, and 9 different sections. Truckee is in the Sacramento Valley Section (SV) as is Susanville and most of the northeastern part of the state, and they are part of the Pacific Division. To determine what section contains what counties, go to <http://www.arrl.org/section-boundaries> This is important for participation in a number of contests like the Sweepstakes and the Nevada QSO Party.

Another locator is the number in your callsign. Nevada is in the 7th call zone and new calls are issued with the 7 in them. Many years ago, the rules changed and if you moved from one call zone to another, you no longer had to change your callsign.

You can even get a vanity callsign with another number. This does create a few logging problems, and maybe a few lost contacts during the 7QP and Nevada QSO parties. Saying “in Nevada” during these contests gets the point across without causing confusion when the results are scored.

When you start working a lot of DX, you will get to know the CQ Zones. We are in Zone 3 here in Nevada and California. Most logging software will want you to add this to your station information during setup. International Telecommunication Union (ITU) Zones and Regions are also good to know. We are in ITU zone 6 and ITU region 2. The ITU region is important as it determines ham bands and usage—yes, it is why you hear all those foreign broadcast stations on 40 and 80 meters in the morning.

There are also the standard latitude and longitude locations. Most GPS receivers will give you your location to better than the 10 character Grid Zone precision. Unfortunately there are a couple of things that are problematic with the GPS. There are a number of different datums that can throw your location off by a few hundred feet. NAD 1983 and WGS 1984 are the best ones to use as they are exceedingly close. There is also the matter as to the format that should be used. These three longitudes are the same-- -119.50000, 119° 30’ 00”W, -119° 30.00000 This would be somewhere between Fallon and Fernley. You have to be sure what format is needed. Western hemisphere longitudes are always used with a minus sign or the W for west. Without the minus or W, those locations would be in China.

With grid zones or lat/lon, it is possible to calculate the distance between 2 points. There are a number of programs out there that will do the calculations. For the grids, they use the center of the grids for the calculations, so it is best to use the 6 digit grid zones. The center of DM09 is near Lahontan Dam, which is about 42 miles from Reno. Since this is also used by some logging programs to calculate the beam heading for directional antennas, you can be quite off on the direction to set the antenna. It would be about 90° off for Carson City while only a hair off if you were aiming for a station in Florida.

Knowing the different ways to represent locations for ham radio is a good skill to add to your toolbox. Knowing your state, Section, Grid Zone and CQ Zone are the most often needed items by your DX contacts.

SNARS LOGO ITEMS

This year we are celebrating our 50th year by providing many ways to commemorate this occasion by imprinting our 50th



Stickers \$1.00 Each



16oz Coffee Mugs \$8.00



Hats \$10.00



Club Badge \$15.00

Order at
<http://snars.org/store/badge-order>

Items are available at the monthly meetings, events or online (coming soon) <http://snars.org/store>

MIKE'S MISSIVES CHAPTER FORTY SEVEN

Mike Katz, N7MSK

PART 97.103

STATION LICENSEE RESPONSIBILITIES

- (a) The station licensee is responsible for the proper operation in accordance with the FCC rules. When the control operator is a different amateur than the station licensee, both persons are equally responsible for proper operation of the station.
- (b) The station licensee must designate the station control operator. The FCC will presume that the station licensee is also the control operator, unless documentation to the contrary is in the station records.
- (c) The station licensee must make the station and the station records available for inspection upon request by an FCC representative. When deemed necessary by a district director to assure compliance with the FCC rules, the station licensee must maintain a record of station operations containing such items of information as the District Director may require in accord with *0.314(x) of the FCC rules.

SHORT TAKES

HAM RADIO NIGHT, FIRST WEDNESDAY, NOVEMBER 6, 2019

Help night to get new hams licensed in the last couple of months on the air. There may be some DMR programming help available at that time.

CONTEST CALENDAR

Some interesting contests are popping up in November. The CW part of the ARRL Sweepstakes is this coming weekend, November 2 at 2100z after our club meeting to 0300z on Sunday evening. The SSB portion also starts at 2100z on November 16 and runs until 0300z on Sunday night. Full details can be had at <http://www.arrl.org/sweepstakes>

The biggest CW contest of the year is the CQWWCW contest that runs from 4pm local time on Friday until 4pm local on Sunday afternoon November 22-24. Lubricate your key, tune up your headset, and limber up your fingers for a lot of 30 WPM code from operators all over the world. Complete rules are at <http://www.cqww.com/rules.htm>

DX

There are some interesting ones on the air at this time. VP6R on Pitcairn Island will be on until Nov 1. ZD8SC on Ascension Island will

be operating until November 11. TX7T on Marquesas will be running 3-4 stations on 160-6 on CW, SSB and FT8 from November 6-19. These and a lot more can be found at <https://www.ng3k.com/Misc/adxo.html>

RENO QRP SLOW SPEED CW NET

Our next NET sessions will be on Wed. November 6, 2019

NOTICE NEW TIMES FOR WINTER 11:00 AM

The target frequency is 7.045 MHz if not in use, if busy search somewhere near that frequency. Please include the following in your exchange: NAME RST LOCATION RIG POWER ANTENNA.

Don't forget what our goal is in the Slow Seed CW NET. First Practice sending and receiving CW. Second Our chance to be on the air with our HAM friends and exchange some information. This should be an enjoyable time for all.

Additional comments are always welcome before I close the NET. Take this time to report RST for other OP's or anything else that comes to mind.

Hope to hear you on the NET

NAME THAT RIG

(Answer on page 14)



W7SSB's FUN STUFF

ANTENNA PROJECT IDEA

One of the foremost questions I get in the shop is what antenna should I use! It is like going to a car dealer and asking what car should I buy?

There are many questions that need to be asked!

1. How are you going to use it?
- 2.. What frequencies are you going use?
3. What power are you going to use?
4. What antenna restrictions do you have?
5. What is your spending budget?

You don't have to spend a lot of money to get on the air and have fun building and using it! Here is a simple product from MFJ that you can have some fun experimenting with different loop sizes! Please look at the videosThe **MFJ 935B (loop tuner)** and **MFJ 58B Loop Kit**

<https://www.mfjenterprises.com/Product.php?productid=MFJ-935B>



Try it you may like it!

BELOW

This is a porta party tent I bought at the prepper store in Sparks for \$45.00 ! It keeps you out of the sun, wind and rain and is easy to put up !



FUN STUFF FOR NOVEMBER

Some of the better November contests are listed below. Those in **BOLD** are ARRL or NCJ sponsored, and may qualify for the Gavel Award. See <http://www.arrl.org/files/file/Contest%20Corral/2019/November%202019%20Corral.pdf> for a complete list of contests.

12 Nov 2100 to 4 Nov 0259 1.8-28 ARRL Sweepstakes Contest, CW
www.arrl.org/sweepstakes

9 Nov 0001 to 10 Nov 2359 28 10-10 International Fall Contest, Digital
www.ten-ten.org

9 Nov 2300 to 17 Nov 2300 1.8-7 AWA Bruce Kelley 1929 QSO Party CW
www.antiquewireless.org

16 Nov 0000 to 17 Nov 2359 50-1296 ARRL EME Contest CW Ph
www.arrl.org/eme-contest

16 Nov 2100 to 18 Nov 0259 1.8-28 ARRL Sweepstakes Contest, SSB Ph
www.arrl.org/sweepstakes

23 Nov 0000 to 24 Nov 2359 1.8-28 CQ Worldwide DX Contest, CW
www.cqww.com

If you're not into contests, there's always DX to chase! November's good stuff is scattered around the globe. Some of the better DX operations coming up in November:

Nov 04 to Nov 07	Vanuatu	YJ0RRC
Nov 04 to Nov 16	Rwanda	9X2AW
Nov 06 to Nov 19	Marquesas	TX7T
Nov 08 to Nov 18	Aland Is	OH0UA
Nov 10 to Nov 17	Maldives	8Q7KX
Nov 12 to Dec 25	Madagascar	5R
Nov 12 to Nov 29	Cocos Keeling	VK9CZ
Nov 14 to Nov 26	Temotu	H40
Nov 16 to Nov 28	Tanzania	5H3UA
Nov 21 to Nov 27	Lord Howe I	VK9LQ
Nov 21 to Nov 27	Palau	T88DT
Nov 22 to Nov 27	Micronesia	V63DX
Nov 24 to Dec 31	Tonga	A35JP
Nov 26 to Dec 28	Ghana	9G5GS

There's lots more too! Check out: <https://www.ng3k.com/Misc/adxo.html>

THE BANDS ARE DEAD!!!.....OR ARE THEY?

Everyone these days is moaning about HF band conditions. To be sure, with the solar flux diving down to as low as 63 (with ZERO sunspots for days/weeks now), propagation isn't much to write home about. But, are the bands suffering from poor propagation, or lack of activity? The answer is, both.

Yes propagation is in the toilet and we're powerless to do much about it. BUT.....the bands ARE open some of the time (well maybe not 10 meters, and even there you'll find the occasional rare opening, just ask the 10-10 group!) How to know? If you haven't already heard of and used the **Reverse Beacon Network**, it's a handy tool. What is RBN? It is a network of dozens of stations around the world listening to the bands and reporting what stations they hear, when and how well. The stations are automated and receive only, and feed the data into a main system.

And that information is readily available to anyone. Simply go to www.ReverseBeacon.net, click on "try it", and you'll see a whole list of stations heard by listening stations around the world, what frequencies they're on, and a measure of the relative signal strength received by the receiving station. The current system only allows CW and RTTY reception, but they are in the process of assessing the viability of capturing FT8 signals as well. The signal strength measurement is, of course, tied directly to the receiving station's antenna, location, receive capability, local noise, etc., and thus is relevant only to THAT station.

But, you've got which stations are copying whom, what frequency, and time of day. What's more, you can customize the spotting stations to show how YOU are getting out. First, call "CQ" on a band or bands (remember, CW or RTTY only). Best to use a 3X3X1 call sequence: "CQ" 3X, de "call" 3X, repeat 3 times, then one CQ followed by your call. On the main page, click on "search spot by call sign", insert your call into the window, and hit return. If you've called CQ, the receiving stations' results of your calling should show on the page. I've used RBN many times, and find that even though there's no one awake on, say, 15 meters, or 17 meters, my signal – despite my low, hidden and stealthy antenna farm – is usually heard cross country, sometimes by foreign stations. Problem is, no one is listening, and/or no one is calling "CQ". There are countless times that a band may be open, but no one bothered to call "CQ", so anyone listening would have heard nothing and assumed the band was "dead".

The RBN is also a handy tool to assess the performance of various antennas you may have. Simply call "CQ" on several different frequencies and antennas, and note the results of stations that received you on the different antennas, taking into consideration directional characteristics, takeoff angles, etc. And, if someone responds to your "CQ", answer them before going over the results! Like so many other ham-aids, RBN is a user-supported effort. If you use them, consider making a donation.

WB2AWQ

A NEVADA QSO PARTY SAGA

Nevada QSO Party Expedition to Eastern Nevada

Dave Thompson AG7TX and Greg Moore KG7D

A few weeks ago, Greg KG7D contacted me and asked if I would be interested in an expedition for the NV QSOP. His intent was to activate White Pine and Lincoln Counties at the county line south from Ely, Nevada.

Of course I agreed.

On the appointed date, Thursday 10 October, four operators in three vehicles headed east. Participants were Greg KG7D, Subrina KI7OAL, Diana KJ7GVY, and Dave AG7TX. The drive out to the site required about seven hours. The original campsite was not satisfactory, but after a little scouting, Diana KJ7GVY found an alternative location on the county line a few hundred yards east from the original site.

Camp was setup and an evening enjoyed as a group. Thursday night was quite cold with a minimum temperature of about 11F. Diana KJ7GVY wins the IRON WOMAN award for tent camping without complaint.



Diana KJ7GVY, IRON WOMAN

Dave AG7TX setup a new station power system. A 160w Renogy panel was used with a Genasun 10 solar charge controller to keep a pair of 80Ah AGM batteries charged and operating the station. It was the first time out for this system and it worked better than expected. The Elecraft K3/P3 transceiver/panadapter, a station computer, and a number of other devices were powered and/or charged with this system.

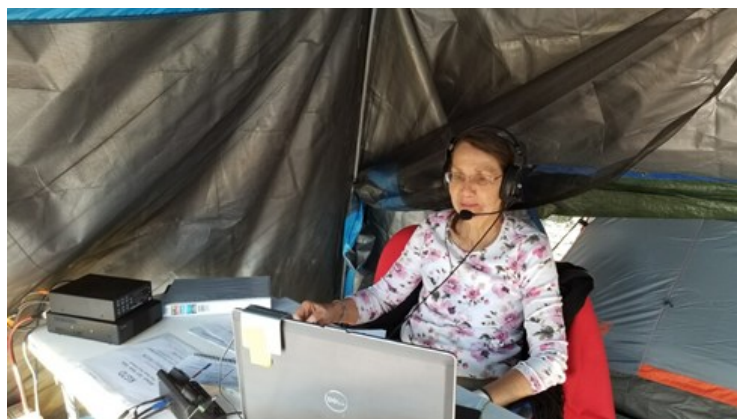
Friday morning all stations were setup and tested. Three mesh nodes were setup, connected to station computers, and were able to communicate between campsites/stations. The mesh nodes are repurposed home WiFi/Routers that are reflashed (reprogrammed) with the BroadBand-HamNet (BBHN) software. The BBHN software uses the amateur portion of the 2.4GHz band for communication between mesh nodes.

When powered up, each mesh nodes identifies itself with the owner's call sign and looks for other mesh nodes within range. If found, they connect to form the mesh and permit traffic to be passed between nodes to other nodes. This network is used by N1MM+ and permitted a shared logging system using N1MM+. A talk window also allowed text communication between operators. Much use was made of this utility.

Operations began Friday evening.



Subrina KI7OAL operating



Diana KJ7GVY operating

IIRC, we were phone on 20m, 40m, 80m, and some digital on 40m and 80m. Greg was doing some PSK31 I think. I spent most of my time on 40m, as did Diana.

By the end of the NVQSOP, more than 300 contacts were made by the group. The stations were broken down and stowed and a group party was held at the KG7D/KI7OAL campsite Sunday evening. Camp was broken the following morning (Monday) and the expedition returned home to Carson City.

David Thompson, AG7TX

Editor's note: Photos courtesy of Greg KG7D

YOUTH INVOLVEMENT

JOTA OCT 19, 2019 JAMBOREE THE AIR

Congratulations to Casey Stoddard, the 17 year old girl who spoke at the SNARS breakfast and put on this event for yer Girl Scout Gold Award project.

On Saturday October 19th, 2019 we had an event at the High Desert Montessori School in Reno.



PHOTO HEIDI HOWE

We had a lot of hams helping and volunteers helping out:

K6ST Barry - ARRL Nevada Section Youth Coordinator and other volunteers supported the event from planning to execution.

KG7D Greg - 40m SSB
KI7OAL Subrina - 40m SSB
WA7IRW Greg - CW
WB6JAD Gordon - CW
KG7QXE Wes - DMR
K7WHH Bill - 2m Analog
WA6MTY Bob - Ecomm1 vehicle
N3JWM John - Ecomm1 vehicle
N7PY Norm
W6ADZ Darrell - winlink
AG7TX David

KL7RI John
KG7VUI Shawn
NL7IN Michael - operated the event from home
W7FEI Bill - operated the event from home
KJ7HMY Gary - operated the event from home
Casey - project manager
Heidi Howe - Girl Scouts
Kaleigh Richards - School Teacher



PHOTO KG7D

A special event callsign K7S was used by the ham radio operator at this Reno - JOTA event.



PHOTO KG7VUI

There were about 100 kids at the event which included a fair. Approximately 50 stopped by the ham radio activities, with many qso's on the different bands. Each kids got a certificate to take home with them and a flyer about ham radio.



PHOTO KG7D

Below is an article from Greg KG7D with more details about this tremendous event.

BOY AND GIRL SCOUTS JAMBOREE ON THE AIR 2019 OCTOBER 18 TO 20, 2019

Most hams say they first were introduced to amateur radio as a kid. It may have been many years later before amateur radio became an active part of their life, but the seed had been planted when they were young.

Back in January of this year Subrina – KI7OAL and I took part in a ham radio event at Cabela's in Reno. This event was the first of many to come, organized by the newest ARRL Youth Coordinator, Barry Bettman – K6ST. The goal was to introduce kids, and parents to amateur radio. We got lots of kids pounding out their names on Morse code

(Continued on pg 11)

oscillators and just as many talking on the radio. No one left without a smile and a certificate. We quickly found that while the kids liked the noise and playing with our “toys”, many adults, both with and without kids wanted to know more about how to get into amateur radio. We were also approached by a Boy Scout Master, and his daughter that was a Girl Scout. They wanted to know if we would help with future Scouting, both Boy Scout and Girl Scout, radio related events.



PHOTO KG7D

July 2019: NVCON Reno, Nevada. Over 25 Scouts earned their Radio Merit badges. Barry and I assisted licensed amateur radio operator and Scout Master Shawn Stoddard – KG7VUI in getting all this Scouts their Radio Merit Badges. This included several hours of classroom time as well as practical experience on talking on the radio, and a fox hunt.

This brings us up to last weekend. Oct 19, 2019. Shawn returned to invite us to again join with the Scouts. Shawn’s daughter Casey was trying to meet the requirements to her Girl Scout Gold Award Project by organizing a local event, that would be in conjunction with Jamboree on the air, a world-wide amateur radio Scouting event.



PHOTO HEIDI HOWE

The event was held at High Desert Montessori School in Sparks. SIERA members David Thompson – AG7TX, Subrina Vinton – K17OAL, and my self, as well as several SNARS members, joined in and helped out. The setup included the Washoe County ARES truck, a Winlink Station, VHF, DMR, CW, and HF stations.

Kids from the smallest Cub Scouts to young adult Eagle Scouts as well as non Scouts, had a great time pounding out Morse code and talking on the radios to other kids and Scouts. Required exchange included Name, Scout rank, QTH, and other hobbies they enjoyed. Many contacts were logged and certificates were given for making contacts. Before stepping up to the radio, each Scout was prepped. Everything was explained. Then they were given a sheet of paper

SNARS - Sierra Nevada Amateur Radio Society, Inc—<http://snars.org>



PHOTO KG7VUI



PHOTO KG7VUI

and told to write their name vertically down the left side. Next, with a list of NATO Phonics, they were to look up each letter and write the word next to the letters of their name. Once on the radio each child would give his or her name and spell it out phonically. A list of suggest exchange was handy at the radio. It included suggestions for talking to other Scouts, other kids, or adults. One of the older Scouts, an Eagle Scout, listened intently to the instructions. Then took the microphone and started calling CQ. “ CQ CQ CQ this is Jamboree on the air, special event station, Kilowatt Seven Sierra calling CQ”. It took several calls to get a response, but within a few minutes he had made several contacts. With a smile from ear to ear he told me this was one requirement to getting his Radio Merit badge.



PHOTO HEIDI HOWE (Casey Stoddard, center)

ARRL Youth Coordinator Barry Bettman – K6ST is a Reno /Sparks local. You can find his contact information on QRZ or in any QST magazine. This was the 6th Youth radio event this year. Actions speak louder than words! Have some fun and get involved!

Greg Moore – KG7D

Barry K6ST, Nevada Section Youth Coordinator, ARRL

ARES NEWS

This frequency chart is what we use from the National Weather Service when NWS activates SKYWARN. With our severe thunderstorms these are the frequencies we will use. There is a SKYWARN Class scheduled for Friday at NVCON.



WCARES®



COUNTY	MEMORY	REPEATER	PL	NOTES:
Alpine, Ca	13	147.330	123.0	Leviathan, Minden, Carson, Alpine Co
	4	146.940	123.0	Snow Valley Pk Covers S&E Reno, Washoe, Carson, Minden, and Whole Lake Tahoe
	10	147.240	100.0	Heavenly Valley Heavenly Vly, Most Lake, into Sacramento
	11	147.270	123.0	McClellan Pk Covers Carson, Douglas, Dayton, Silver Springs
	2	146.865	123.0	Leviathan Covers Alpine and Douglas
Churchill	7	147.150	123.0	Mt Rose Covers S Reno, Washoe, Carson, Douglas, S&W Lake Tahoe
	9	147.210	100.0	Peavine Pk
	6	147.030	123.0	Virginia Pk Mt Rose System
	8	147.180	107.2	Virginia Pk Covers Reno, Spanish Springs, Churchill Co, Gerlach, Black Rock, Susanville (scratchy)
	5	146.970	100.0	Eagle Covers Silver Springs and Fallon
Carson City	1	146.610	123	Ophir Pk (Dayton, Stagecoach, Silver Springs, Fallon, Lovelock)
	4	146.940	123	Snow Valley Pk Covers S&E Reno, Washoe, Carson, Minden, and Whole Lake Tahoe
	14	147.390	123.0	Ophir Pk (Dayton, Stagecoach, Silver Springs, Fallon, Lovelock)
	11	147.270	123.0	McClellan Pk Covers Carson, Douglas, Dayton, Silver Springs
Douglas	13	147.330	123.0	Leviathan Pk, Minden, Carson, Alpine Co
	11	147.270	123.0	McClellan Pk Covers Carson, Douglas, Dayton, Silver Springs
	10	147.240	123.0	Heavenly Valley Pk Heavenly Vly, Most Lake, into Sacramento
	2	146.865	123.0	Leviathan Covers Alpine and Douglas
Eldorado, Ca	10	147.240	123.0	Heavenly Valley Pk Heavenly Vly, Most Lake, into Sacramento
Lassen, Ca	8	147.180	107.2	Covers Reno, Spanish Springs, Churchill Co, Gerlach, Black Rock, Susanville (scratchy)
Lyon	5	146.970	100.0	Lahontan (Silver Springs, Fallon)
	1	146.610	123.0	Ophir Pk (Dayton, Stagecoach, Silver Springs, Fallon, Lovelock)
	7	147.150	123.0	Mt Rose (Silver Springs, Yerington, Smith Valley)
Mineral				
Modoc, Ca				
Mono, Ca				
Nevada, Ca	7	147.150	123	Mt Rose Covers S Reno, Washoe, Carson, Douglas, S&W Lake Tahoe
Pershing	6	147.030	123	Virginia Pk Mt Rose System
	8	147.180	107.2	Virginia Pk

Pershing	6	147.030	123	Virginia Pk Mt Rose System
	8	147.180	107.2	Virginia Pk
Placer, Ca	10	147.240	123	Heavenly Valley Pk Heavenly Vly, Most Lake, into Sacramento
Plumas, Ca	7	147.150	123	Mt Rose Covers S Reno, Washoe, Carson, Douglas,S&W Lake Tahoe
	9	147.210	100	Peavine Pk
Sierra, Ca	7	147.150	123	Mt Rose Covers S Reno, Washoe, Carson, Douglas,S&W Lake Tahoe
	13	147.330	123	Leviathan Pk, Minden, Carson, Alpine Co
Storey	7	147.150	123	Mt Rose Covers S Reno, Washoe, Carson, Douglas, S&W Lake Tahoe
	9	147.210	100	Peavine Pk
	6	147.030	123	Virginia Pk Mt Rose System
	8	147.180	107.2	Virginia Pk
	1	146.610	123	Ophir Pk (Dayton, Stagecoach, Silver Springs, Fallon, Lovelock)
	14	147.390	123	Ophir Pk (Dayton, Stagecoach, Silver Springs, Fallon, Lovelock)
		146.850	123	Storey County ARES
Washoe	7	147.150	123	Mt Rose Covers S Reno, Washoe, Carson, Douglas,S&W Lake Tahoe
	9	147.210	100	Peavine Pk
	6	147.030	123	Virginia Pk Mt Rose System
	8	147.180	107.2	Virginia Pk
	1	146.610	123	Ophir Pk (Dayton, Stagecoach, Silver Springs, Fallon, Lovelock)
	14	147.390	123	Ophir Pk (Dayton, Stagecoach, Silver Springs, Fallon, Lovelock)
EchoLink and IRLP	3	146.895	100	KA7ZAU Peavine Pk (Node #357948 (#73 to clear #15 to activate #73 when done))
	12	147.300	123.0	Grand Sierra Resort (Node #7873)
DMR		TALK GRPS		SNARS and/or NEVADA

Yellow highlighted are linked repeaters

ANNUAL COMMUNICATIONS EVENTS CALENDAR 2019

Carson Valley, Tahoe, Reno, Plumas County

Revised 6-29-19

EVENT 2019	DATE	DATE END	SPONSOR/ORGANIZER	COORDINATOR	CONTACT
Turkey Trot	11/28/19		WC-ARES	Bob Miller WA6MTY	wa6mtv@gbis.com

NOTE: Plumas ARC always have a need for operators. Go over to some beautiful country and help out the Plumas Amateur Radio Club

ONE DAY HAM CRAM

My next One Day Ham Cram (Technician or General review) is November 16th, 0800-1300. Everyone MUST register on www.snars.org/oneday.

Bob WA6MTY Emergency Coordinator Washoe County ARES
775 843-5952 wa6mtv@gbis.com

NEED HELP

FEMA and DHS are having their 4th quarter communications exercise. They are looking for the amateur radio community to listen and when possible reply to inquiries on the radio.

Broadcasting on WWV at 10 minutes after the hour and WWVH at 10 minutes before the hour. There will be a digital broadcast on 60 meters sometime on the 16th or 17th Nov, those wishing to copy that message will need "MSDMT M110A" software which is available at "<https://drive.google.com/drive/folders/1jFZbWkM9HEtb1tCuMmurqGkbMu6u3u3O>".

Anyone having further questions or needing assistance with the software may call me at 775-225-1653.

Peter DeBay
KE7VSR

NAME THAT RIG (from page 6)

The **Hammarlund Company**, one of the oldest names in radio, got its start in 1910, manufacturing radio parts. In 1931, after some ups and downs in the business world, they began to manufacture radios, coming out first with the Hammarlund Comet, a BC/short wave receiver for the SWL. In 1932, they jumped into the Amateur market, with a modified Comet, designated the **Hammarlund Comet Pro, pictured on page 6**, which featured a BFO for code reception, which the Comet did not have. With 8 tubes and plug-in coils in a relatively yet-uncommon superheterodyne design, the Comet Pro offered reasonable selectivity compared to the prevailing tuned-radio-frequency and regenerative designs of the day. It sold for \$90 in 1932, and was available through 1935, selling for a final price of \$150, a lot of money in the depression days. But it ushered in a long distinguished line of high performance receivers, culminating in the Hammarlund SP-600 series, widely used by the US Military and prized by the Ham community through the early 1970s. (Yours truly used a SP-600 as a CW operator at the Naval Communications Station Guantanamo Bay in the 1960s). Hammarlund also manufactured transmitters, and made various radio parts, in particular high quality variable capacitors, through their tenure in the radio market., closing finally in 1973. Hammarlund receivers (and transmitters) are widely sought after by tube radio enthusiasts, and many are still in regular use.

LIFE IN THE PHILIPPINES, PART 3

Last month I told you that I was contacted by Roberto Vicencio, DU1VHY. He is the Chief Operating Officer on the Board of Directors for PARA (Philippine Amateur Radio Association). He said that all I needed to do was contact the organization for assistance, and that PARA would help take care of the licensing needed to operate in the Philippines.



PARA is the organization to see for the permit or reciprocal licensing for UHF, VHF and HF. [See Logo attached] They are located in Manila and there is no easier method of getting operating privileges than by

going through them. If you are located somewhere in the provinces, such as I am, then you will need to make the trip to the capital of Manila for most things like this. Considering that the Philippines are more than 7000 islands spread across an area extending about the same distance north to south as from the southern Washington border to the Mexican border, it can take some planning to get there and stay for business. Plan on three days minimum if it is for some sort of official business. Fortunately for me, the family has a studio condominium in Manila where I can stay. [See attached photo of condo]



PARA will help with the filling out of paperwork, and is in the same building as the NTC (National Telecommunications Commission). PARA can walk the papers to the NTC office for processing, and will take care of formalities for you. This is actually the best way to do this rather than trying it yourself. The PARA office is located at BIR Road, Diliman, Quezon City, Metro Manila. Be advised, Manila is a huge city, and transport even short distances can take hours at times due to the extreme traffic congestion. [See photo of traffic attached].



Once you have your reciprocal license you can get an import permit for your radios. Each radio is separately licensed and registered for use at the designated station location, or in the case of mobile use, under the strict supervision of the control operator. No unregistered radios are permitted to operate, although there is a thriving black market for them. I am not clear yet on the purchasing process for new radios or used ones from a regular retailer, but suspect that they are immediately registered with an operator on purchase.

I will be returning to the U.S. for a couple of months, so I hope I will see you all at the November meeting.

73, Jon KF7KTC

Editor's note: Monthly Board Meeting minutes were not available at time of publication.